25TOOT:2E8T+6E0

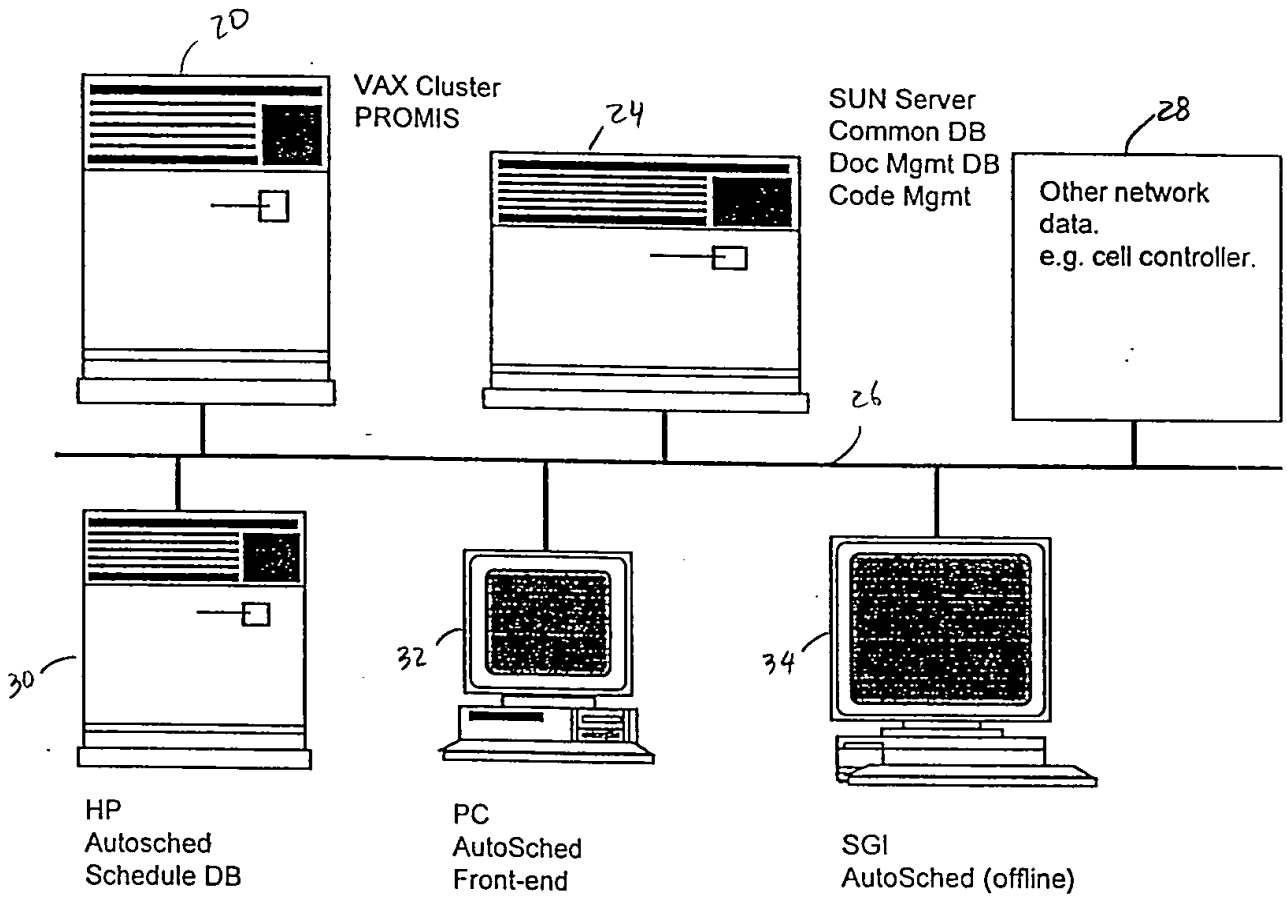

FIG. 1

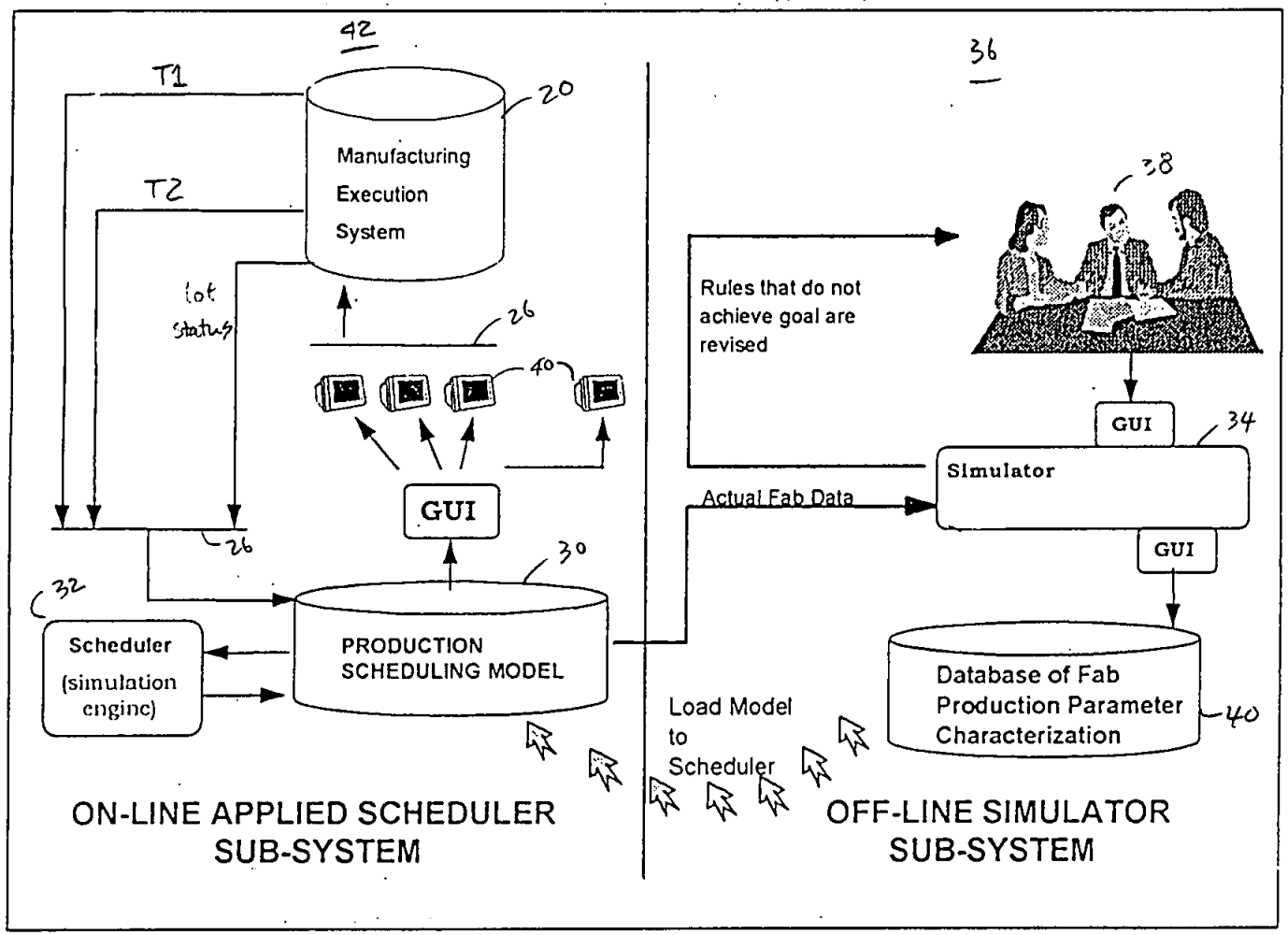
42
T1
T2
20
Manufacturing
Execution
System
lot
status
26
40
GUI
26
30
32
Scheduler
(simulation
engine)
PRODUCTION
SCHEDULING MODEL
ON-LINE APPLIED SCHEDULER
SUB-SYSTEM
36
38
Rules that do not
achieve goal are
revised
GUI
34
Simulator
Actual Fab Data
GUI
Database of Fab
Production Parameter
Characterization
40
Load Model
to
Scheduler
OFF-LINE SIMULATOR
SUB-SYSTEM

FIG. 2

6094680 :ON 3SAT

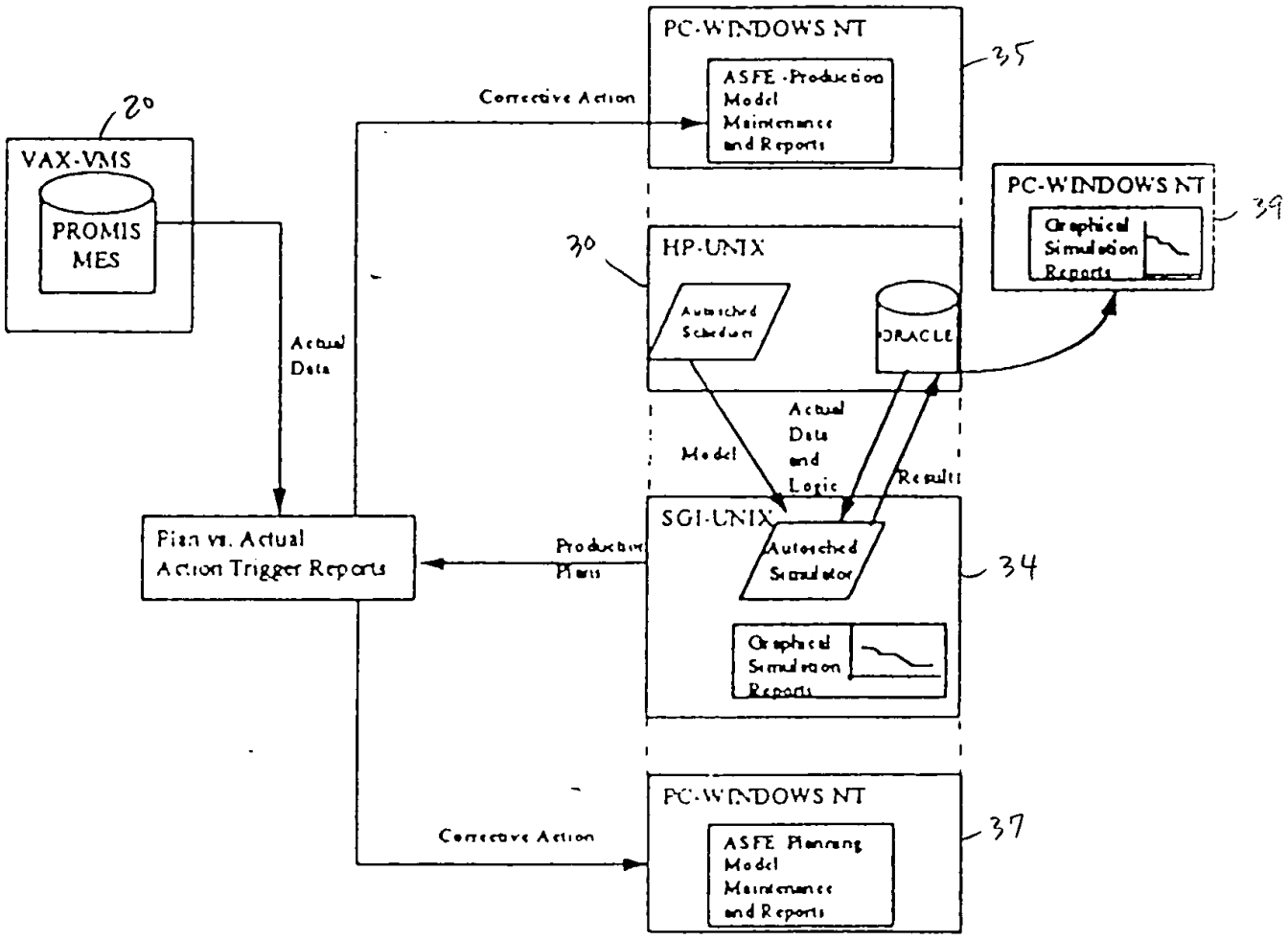

FIG. 3.

Y6T00T-2E8T4E80

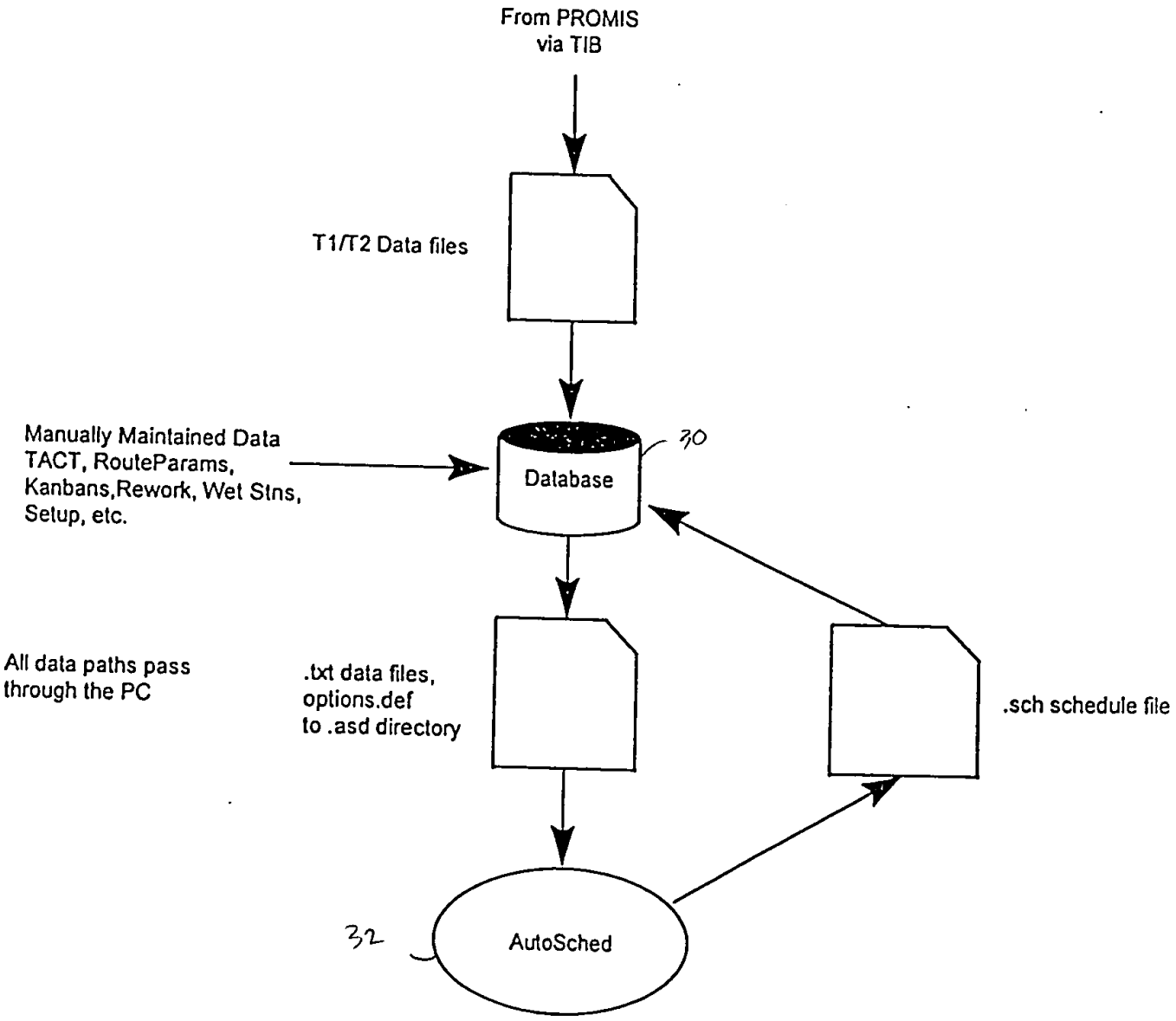

FIG. 4

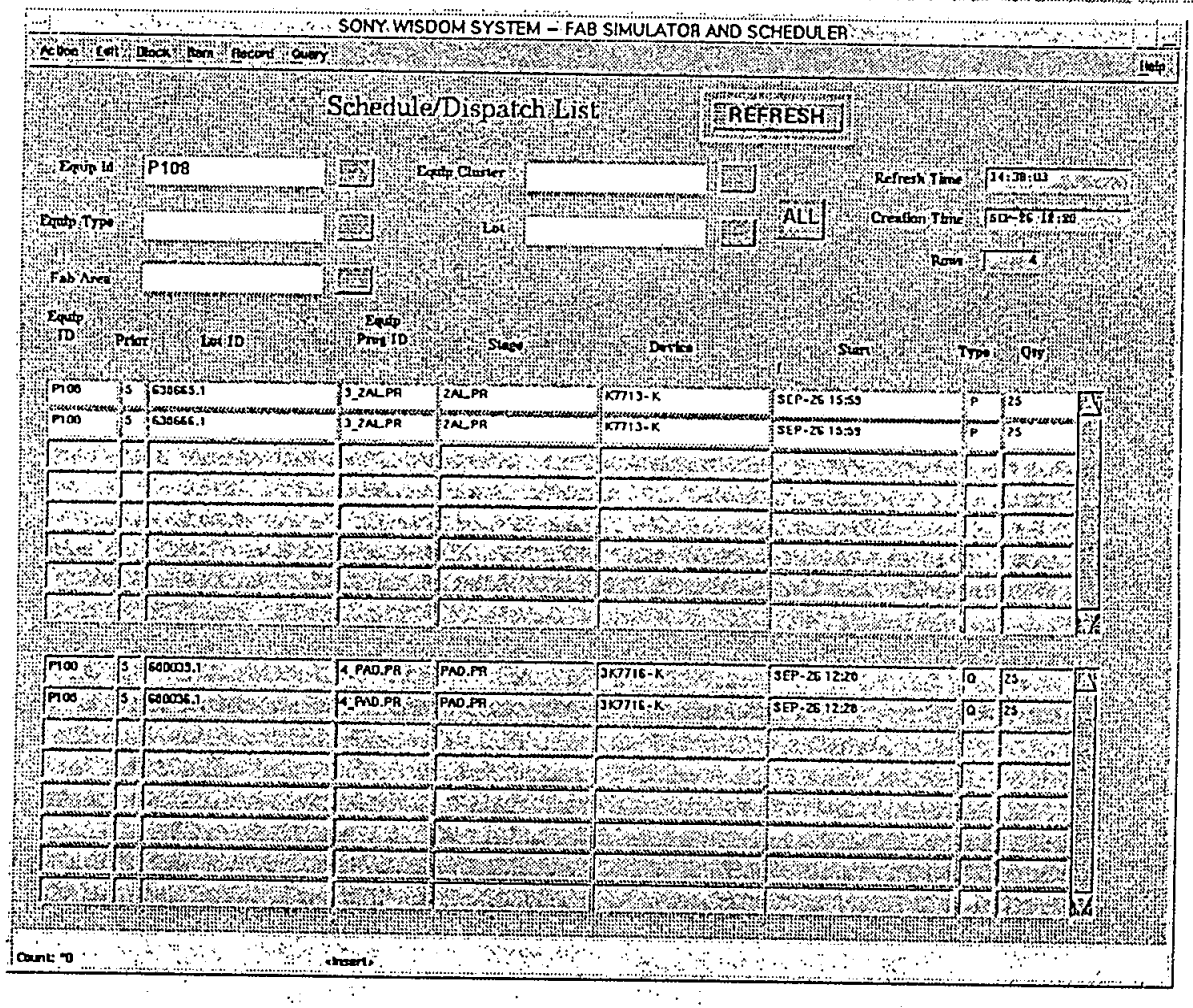
SONY WISDOM SYSTEM – FAB SIMULATOR AND SCHEDULER
Action Edit Block Item Record Query Help
Schedule/Dispatch List
REFRESH
Equip Id
P108
Equip Cluster
Equip Type
Lot
ALL
Fab Area
Refresh Time
Creation Time
Rows
Equip ID
Prior
Lot ID
Equip Prog ID
Stage
Device
Start
Type
Qty
P100 5 638665.1 3_2AL.PR 2AL.PR K7713-K SEP-26 15:59 P 25
P100 5 638666.1 3_2AL.PR 2AL.PR K7713-K SEP-26 15:59 P 25
P100 5 640035.1 4_PAD.PR PAD.PR 3K7716-K SEP-26 12:20 Q 25
P100 5 640036.1 4_PAD.PR PAD.PR 3K7716-K SEP-26 12:20 Q 25
Count: 10
<Insert>

FIG. 5

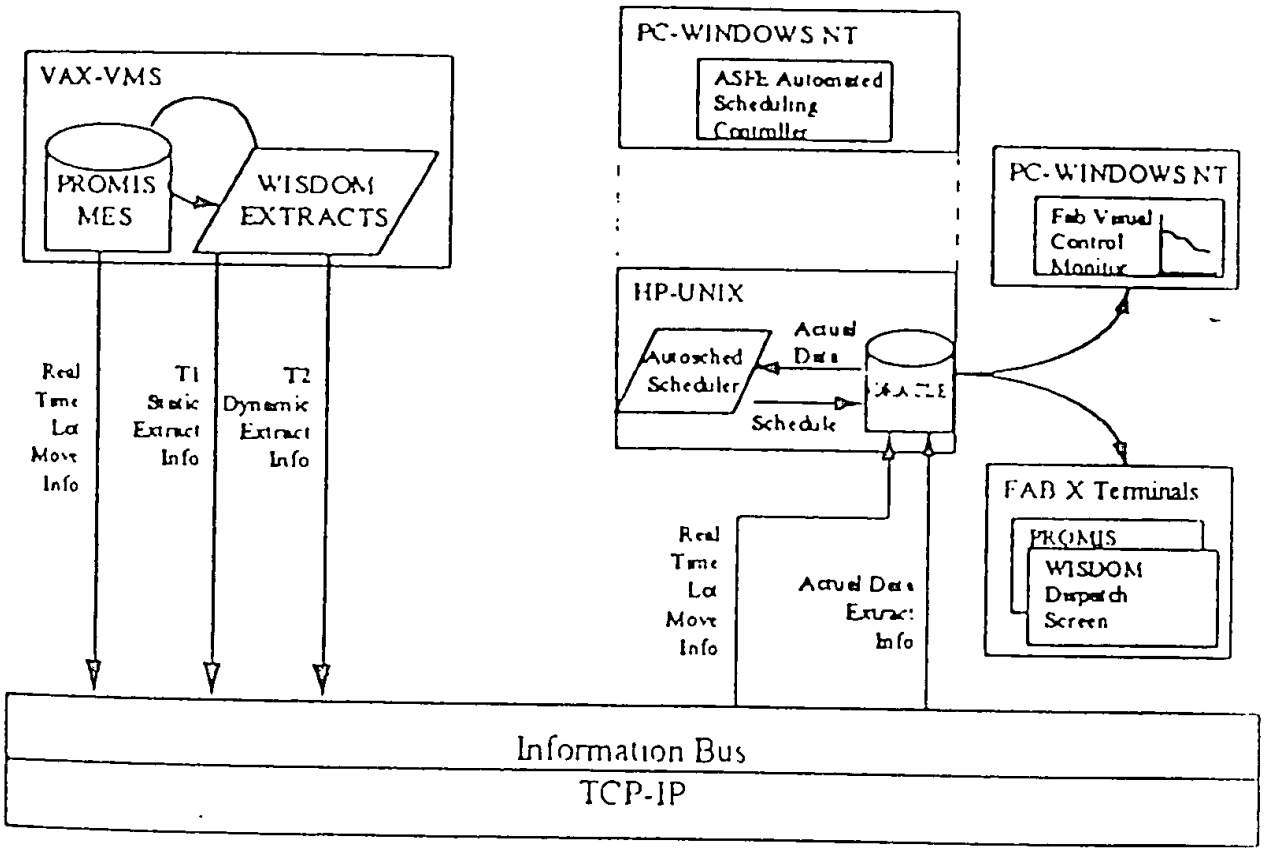
VAX-VMS
PROMIS MES
WISDOM EXTRACTS
PC-WINDOWS NT
ASFE Automated Scheduling Controller
PC-WINDOWS NT
Fab Visual Control Monitor
HP-UNIX
Autosched Scheduler
Actual Data
Schedule
Real Time Lot Move Info
T1 Static Extract Info
T2 Dynamic Extract Info
Real Time Lot Move Info
Actual Data Extract Info
FAB X Terminals
PROMIS
WISDOM Dispatch Screen
Information Bus
TCP-IP

FIG. 6

26T00T* 28Bth680

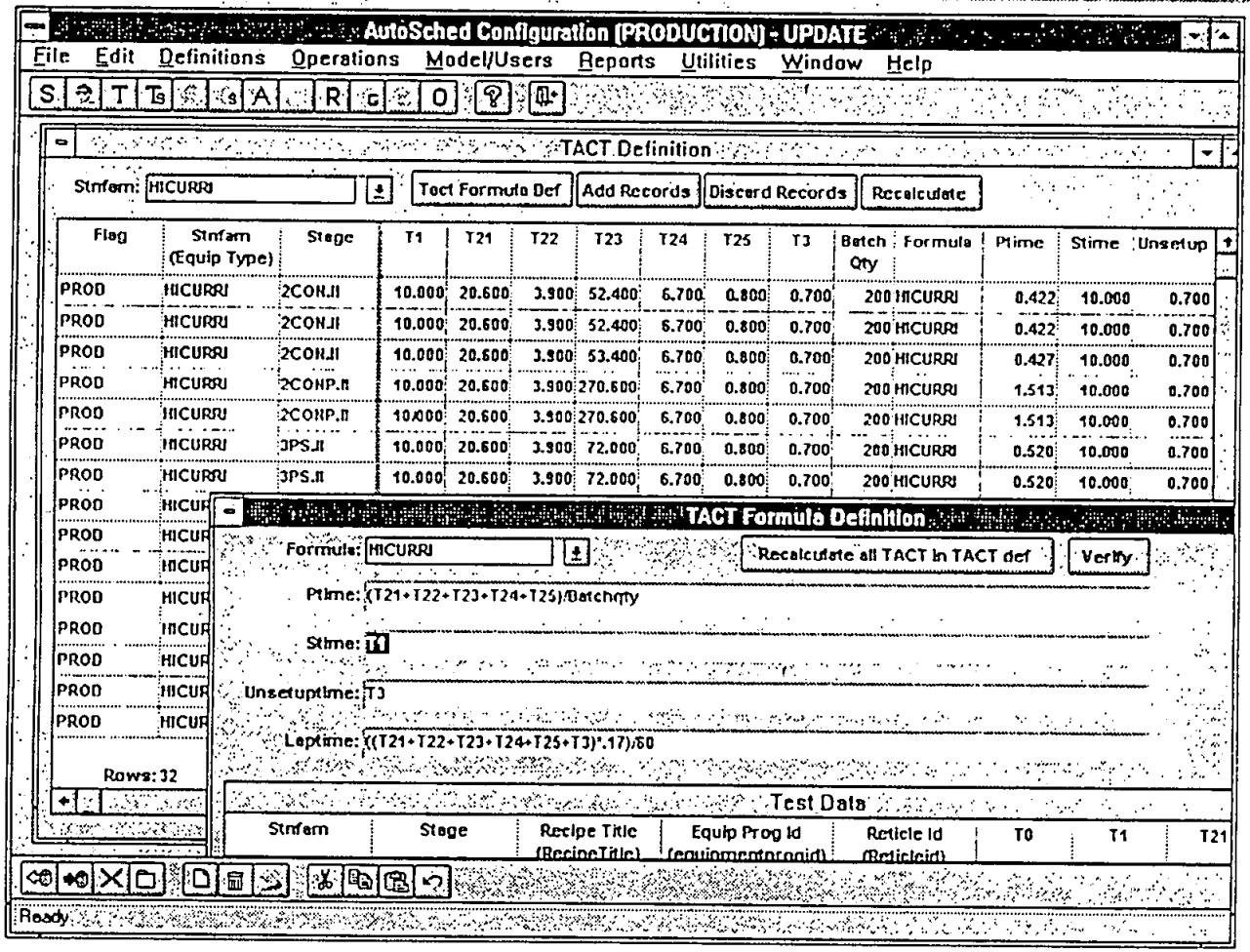

FIG. 7

4570E:2E6E4600

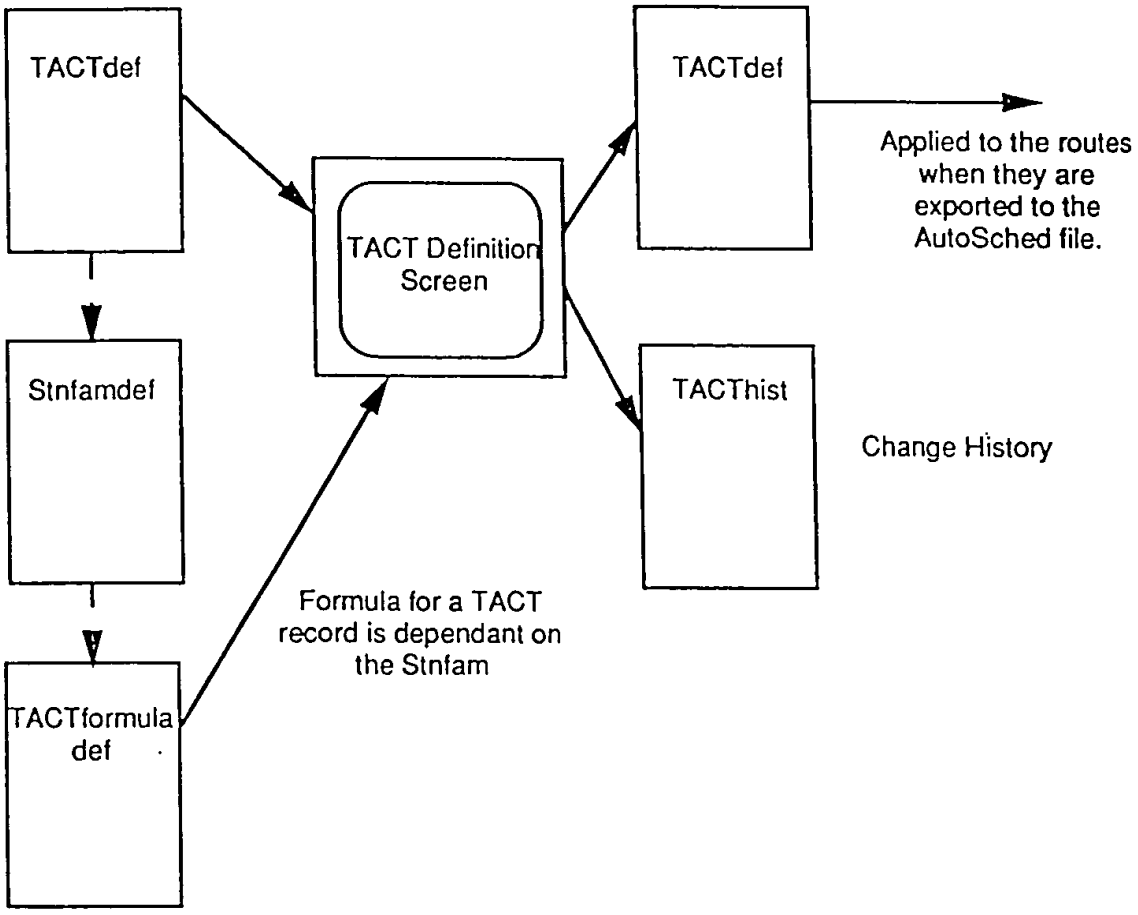

FIG. 8

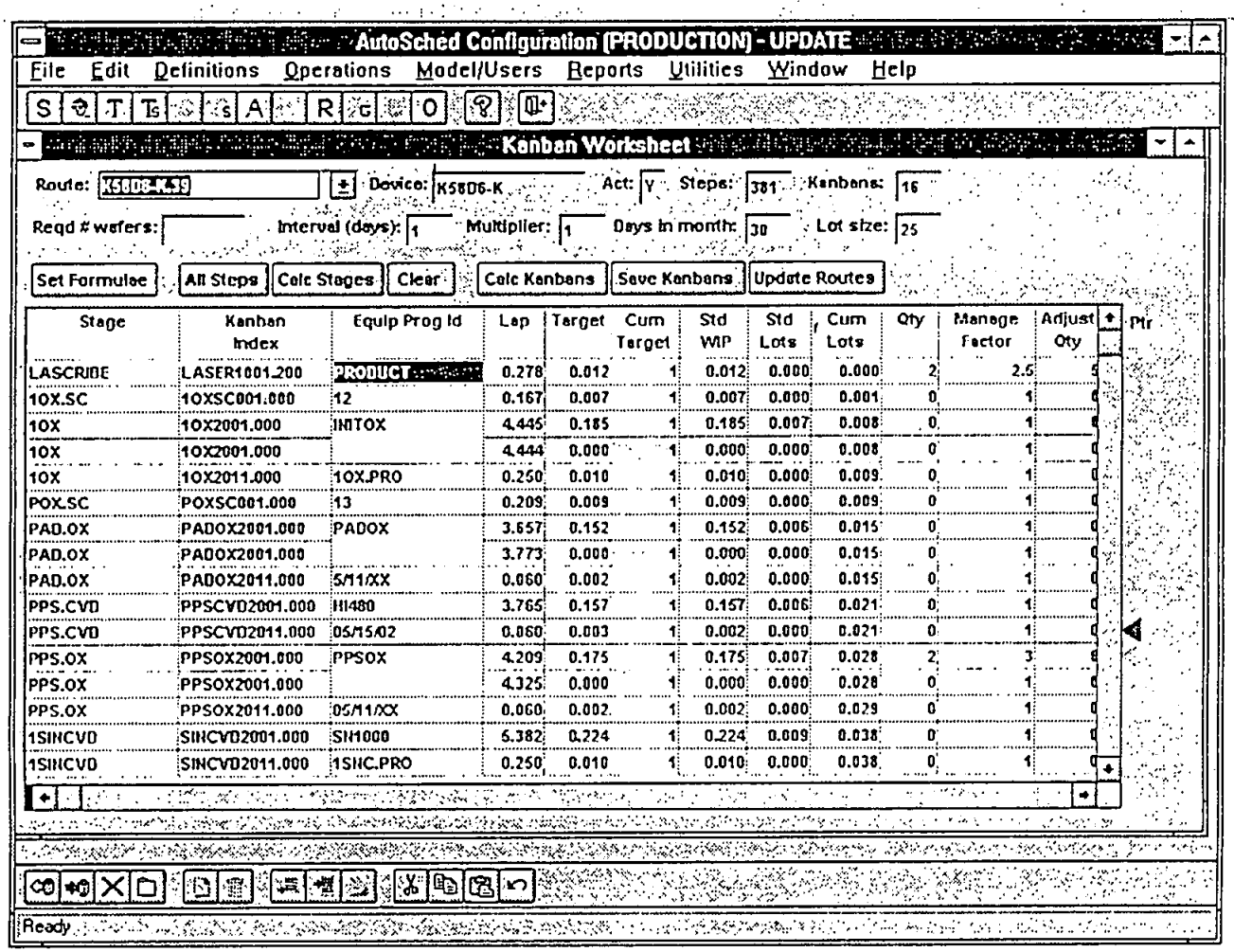
AutoSched Configuration (PRODUCTION) - UPDATE
File Edit Definitions Operations Model/Users Reports Utilities Window Help
Kanban Worksheet
Route: X5806-K39
Device: K5806-K
Act: Y
Steps: 381
Kanbans: 16
Reqd # wafers:
Interval (days): 1
Multiplier: 1
Days in month: 30
Lot size: 25
Set Formulae
All Steps
Calc Stages
Clear
Calc Kanbans
Save Kanbans
Update Routes
Stage
Kanban Index
Equip Prog Id
Lap
Target
Cum Target
Std WIP
Std Lots
Cum Lots
Qty
Manage Factor
Adjust Qty
Ptr
LASCRIBE LASER1001.200 PRODUCT 0.278 0.012 1 0.012 0.000 0.000 2 2.5 5
10X.SC 10XSC001.000 12 0.167 0.007 1 0.007 0.000 0.001 0 1 0
10X 10X2001.000 INITOX 4.445 0.185 1 0.185 0.007 0.008 0 1 0
10X 10X2001.000 4.444 0.000 1 0.000 0.000 0.008 0 1 0
10X 10X2011.000 10X.PRO 0.250 0.010 1 0.010 0.000 0.009 0 1 0
POX.SC POXSC001.000 13 0.209 0.009 1 0.009 0.000 0.009 0 1 0
PAD.OX PADOX2001.000 PADOX 3.657 0.152 1 0.152 0.006 0.015 0 1 0
PAD.OX PADOX2001.000 3.773 0.000 1 0.000 0.000 0.015 0 1 0
PAD.OX PADOX2011.000 5/11/XX 0.060 0.002 1 0.002 0.000 0.015 0 1 0
PPS.CVD PPSCVD2001.000 HI480 3.765 0.157 1 0.157 0.006 0.021 0 1 0
PPS.CVD PPSCVD2011.000 05/15/02 0.060 0.003 1 0.002 0.000 0.021 0 1 0
PPS.OX PPSOX2001.000 PPSOX 4.209 0.175 1 0.175 0.007 0.028 2 3 6
PPS.OX PPSOX2001.000 4.325 0.000 1 0.000 0.000 0.028 0 1 0
PPS.OX PPSOX2011.000 05/11/XX 0.060 0.002 1 0.002 0.000 0.029 0 1 0
1SINCVD SINCVD2001.000 SIN1000 5.382 0.224 1 0.224 0.009 0.038 0 1 0
1SINCVD SINCVD2011.000 1SINC.PRO 0.250 0.010 1 0.010 0.000 0.038 0 1 0
Ready

FIG. 9

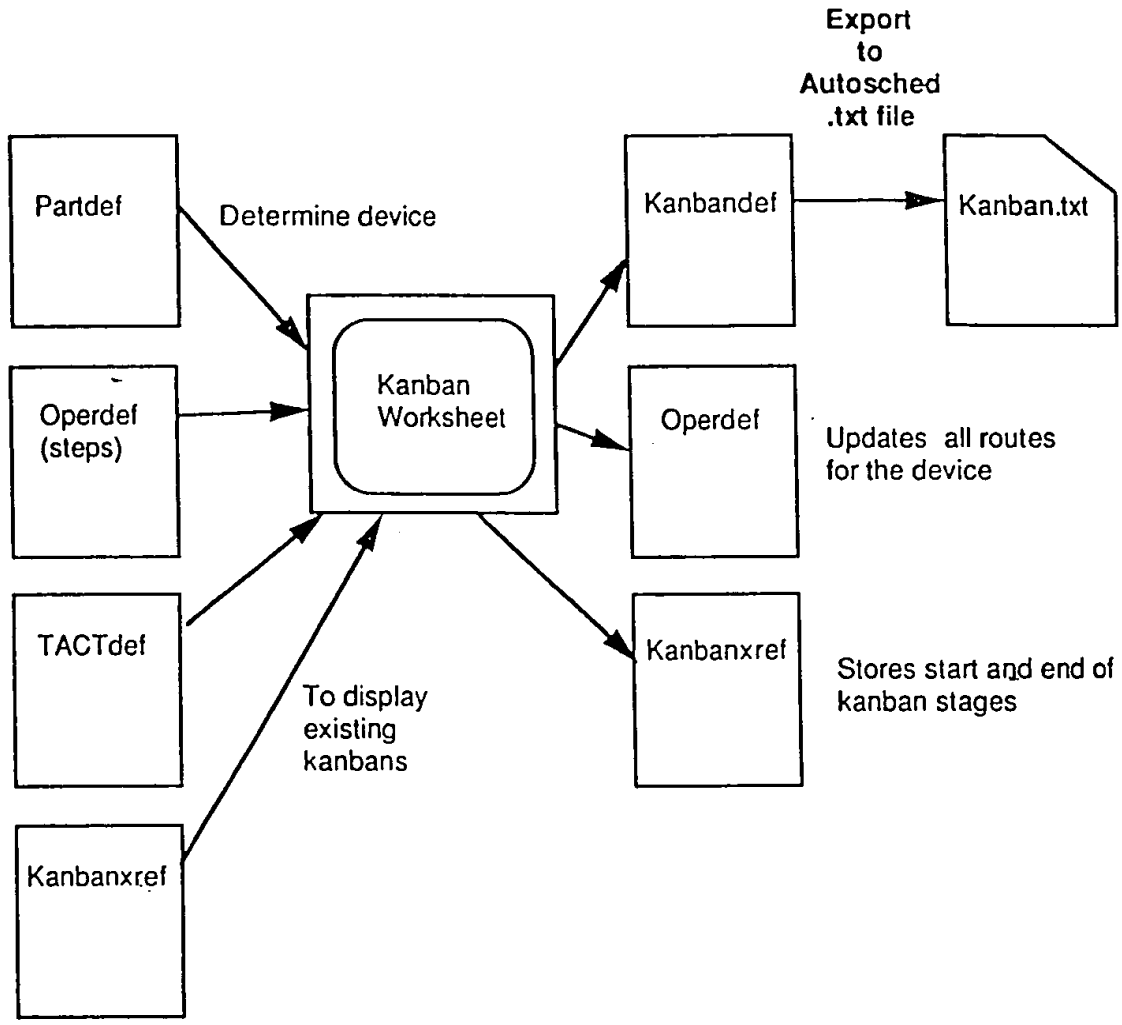

FIG. 10

EXHIBIT 2180469